

Title (en)  
ENERGY RADIATION GENERATOR WITH UNI-POLAR VOLTAGE LADDER

Title (de)  
ENERGIESTRAHLUNGSGENERATOR MIT UNIPOLARER SPANNUNGSLEITER

Title (fr)  
GÉNÉRATEUR D'ÉNERGIE DE RAYONNEMENT À ÉCHELLE DE TENSION UNIPOLAIRE

Publication  
**EP 2742370 B1 20230628 (EN)**

Application  
**EP 12831040 A 20120914**

Priority

- US 201161534446 P 20110914
- US 2012055497 W 20120914

Abstract (en)  
[origin: WO2013040390A2] A well-logging tool may include a sonde housing, and a radiation generator carried by the sonde housing. The radiation generator may include a generator housing, a target carried by the generator housing, a charged particle source carried by the generator housing to direct charged particles at the target, and at least one voltage source coupled to the charged particle source. The at least one voltage source may include a voltage ladder comprising a plurality of voltage multiplication stages coupled in a bi-polar configuration, and at least one loading coil coupled at at least one intermediate position along the voltage ladder. The well-logging tool may further include at least one radiation detector carried by the sonde housing.

IPC 8 full level  
**H01J 3/02** (2006.01); **E21B 47/11** (2012.01); **E21B 49/00** (2006.01); **H02M 7/10** (2006.01); **H05G 1/10** (2006.01); **H05H 3/06** (2006.01); **H05H 5/04** (2006.01)

CPC (source: EP RU US)  
**E21B 47/017** (2020.05 - EP RU US); **E21B 47/085** (2020.05 - US); **E21B 47/11** (2020.05 - EP RU US); **G01N 23/20008** (2013.01 - US); **G01V 3/12** (2013.01 - US); **G01V 3/30** (2013.01 - US); **G01V 5/04** (2013.01 - US); **G01V 5/12** (2013.01 - RU US); **G01V 5/20** (2024.01 - US); **H01J 35/025** (2013.01 - US); **H01J 37/061** (2013.01 - US); **H02M 7/103** (2013.01 - EP US); **H05G 1/10** (2013.01 - EP US); **H05H 3/06** (2013.01 - EP US); **H05H 5/045** (2013.01 - EP US); **E21B 49/00** (2013.01 - EP US); **G01N 9/24** (2013.01 - US); **G01N 2035/00306** (2013.01 - US); **G01N 2201/0227** (2013.01 - US); **G01N 2223/05** (2013.01 - US); **G01N 2223/204** (2013.01 - EP US); **G01N 2223/30** (2013.01 - US); **H01J 3/023** (2013.01 - EP US); **H01J 43/04** (2013.01 - US); **Y10T 29/49117** (2015.01 - EP)

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